| Inde | ex of | Claims | i |
|------|-------|--------|---|
|      |       |        |   |

| App | lication/Control No | ١. |
|-----|---------------------|----|
|-----|---------------------|----|

10/779,463

Examiner

Mark Hellner

Applicant(s)/Patent under Reexamination

HSIEH ET AL.

Art Unit

3663

| √  | Rejected |
|----|----------|
| II | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|              | -i         | Doto   |                  |                 |          |              |          | _  | Claim Date |                |          |          |  |              |                |          |                |          |                 | Claim Date |          |              |            |              |                 |               |          |          |          |          |          |  |
|--------------|------------|--|------------------|-----------------|----------|--------------|----------|--|------------|----------------|----------|----------|--|--------------|----------------|----------|----------------|----------|-----------------|------------|----------|--------------|------------|--------------|-----------------|---------------|----------|----------|----------|----------|----------|--|
| L CIE        | <u>aim</u> |  | , - <sub>1</sub> | Date Claim Date |          |              |          |  |            |                |          |          |  |              |                |          | all I I        | $\vdash$ |                 | $\neg$     | -        | Jale         | ;<br>      |              | —               | $\overline{}$ |          |          |          |          |          |  |
| Final        | Original   | 0122 6                                       |                  |                 |          |              |          |  |            |                | Final    | Original |  |              |                |          |                |          |                 |            |          | Final        | Original   |              |                 |               |          |          |          |          |          |  |
|              | 1          | 2  | -                |                 | _        |              | _        | <u> </u>   | L          | H              | ļ        | 51       | H  | <u>_</u>     | Н              | _        |                |          |                 |            | -        |              | 101        |              |                 | 4             | -        |          | $\dashv$ | $\dashv$ |          | _  |
| <u> </u>     |            | _  | $\vdash$         |                 | _        | $\vdash$     | ⊢        |  |            | Н              | -        | 52       | H  | -            | H              | -        |                |          | $\dashv$        | $\dashv$   |          | -            | 102        |              | $\vdash$        | $\dashv$      |          | _        | -        | $\dashv$ | $\dashv$ | -  |
| -            | 2          | -  |                  | -               | -        | _            | -        | -  | <u> </u>   | $\vdash$       |          | 53       |  | _            | H              | -        |                | $\dashv$ | -               |            | -        | -            | 103        | -            |                 | $\dashv$      | $\dashv$ | -        |          | -+       | -        | $\vdash$                                     |
|              | 3          | =  | $\vdash$         |                 | _        | $\vdash$     | H        | _  | _          | Н              |          |          | -  | -            | Н              |          |                | -        |                 |            | $\dashv$ | -            | 103        | Н            |                 |               |          | $\dashv$ |          | $\dashv$ |          | <del></del>                                  |
|              | 4          | 1  | $\vdash$         |                 | _        | $\vdash$     |          | _  | _          | $\vdash$       |          | 54       | $\vdash$   |              |                |          |                |          |                 |            |          |              |            |              |                 | $\dashv$      | $\dashv$ | _        | -        | $\dashv$ |          | -  |
| <b>_</b>     | 5          | =  | $\vdash$         |                 | _        | L            |          |  |            | Н              | <u> </u> | 55       | L  |              | Н              |          | -              |          |                 | $\dashv$   |          |              | 105        |              | H               | _             | $\dashv$ | _        | $\dashv$ | $\dashv$ |          | <u> </u>                                     |
|              | 6          | -  |                  |                 |          |              |          |  | _          | Щ              |          | 56       | <u> </u>   |              |                | $\dashv$ | $\blacksquare$ |          |                 | $\dashv$   | _        |              | 106        |              |                 | -             | $\dashv$ |          |          | $\dashv$ | _        | <del></del>                                  |
| <u> </u>     | 7          | ├-   | $\vdash$         |                 |          |              |          |  |            | Н              |          | 57       | H  | <u> </u>     | Н              | _        |                |          |                 | $\dashv$   |          |              | 107        |              | -               |               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | -  |
|              | 8          | <u> </u>                                     |                  |                 |          |              | _        |  |            | Щ              |          | 58       |  | _            | Н              | $\dashv$ |                | _        |                 | $\dashv$   |          |              | 108        |              |                 |               | $\dashv$ | $\dashv$ | -        | $\dashv$ |          | ⊢  |
|              | 9          | <b> </b>                                     |                  |                 |          |              | Ш        |  |            | Н              |          | 59       | $\vdash$   | <u> </u>     |                | _        |                |          |                 | $\dashv$   |          |              | 109        |              | $\vdash$        | -             | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | Щ        | $\vdash$                                     |
|              | 10         | <b>├</b>                                     |                  |                 | _        | Н            |          |  | _          | $\vdash$       | <b></b>  | 60       | -  | -            |                | _        | _              |          |                 | -          |          |              | 110        | Н            |                 | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | <del></del>                                  |
|              | 11         | _  | $\vdash$         |                 | _        | Ш            | Ш        | _  |            |                | <u> </u> | 61       |  | <u> </u>     |                |          |                |          |                 | $\dashv$   |          |              | 111        | _            | $\vdash$        |               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | <u> </u>                                     |
| <u> </u>     | 12         | $\vdash$                                     | $\sqcup$         | -+              |          | $\vdash$     | $\vdash$ | ⊢  | _          | Н              | -        | 62       | $\vdash$   | <u> </u>     |                | -        | $\vdash$       | $\vdash$ | _               | $\dashv$   | $\dashv$ | -            | 112        | Н            | $\vdash$        | -             |          | $\dashv$ | $\dashv$ | $\dashv$ |          | -  |
| L            | 13         | ļ.,  | ŀ                |                 |          | <u> </u>     | Щ        | <u> </u>   | $\vdash$   | $\vdash\vdash$ |          | 63       | <b> </b>   | ⊢            | $\vdash\vdash$ |          | Щ.             |          |                 | $\dashv$   | _        | -            | 113        | Н            | $\vdash \vdash$ | $\dashv$      | -        | $\dashv$ | _        | -        |          | <del></del>                                  |
| <u> </u>     | 14         | _  |                  | -               | _        |              | Н        | L  |            | -              | <u> </u> | 64       | _  | $\vdash$     | $\vdash$       |          |                | $\vdash$ | -               | -          |          | -            | 114        | _            | $\dashv$        | -             |          | $\dashv$ | $\dashv$ | $\dashv$ | _        | -  |
|              | 15         | L  | Н                | -               |          |              | _        | L  | L          | Н              |          | 65       | _  | <u> </u>     | $\Box$         | _        |                |          |                 | $\dashv$   | _        |              | 115        |              |                 |               |          | $\dashv$ |          | $\dashv$ | _        | $\vdash$                                     |
|              | 16         | Ξ  | Н                |                 | _        |              |          |  | ļ          | Щ.             | <u> </u> | 66       | _  | $\vdash$     | Ш              |          |                |          | _               |            |          | <b>—</b>     | 116        |              | $\vdash$        | -             | -        | $\vdash$ | $\dashv$ | $\dashv$ |          | -  |
|              | 17         | Ŀ  | Ш                | _               |          |              |          |  |            | Н              | <u> </u> | 67       |  | _            | Н              | _        |                |          |                 |            | _        | -            | 117        |              | $\vdash$        |               |          | $\dashv$ |          | $\dashv$ | _        | <u> </u>                                     |
|              | 18         | =  |                  | _               |          |              | Ш        | ļ  | ļ          | Щ              |          | 68       |  | <u> </u>     | i.             | _        |                |          |                 | $\dashv$   | _        |              | 118        |              | $\vdash$        | _             |          | -        |          | $\dashv$ | _        | <u> —                                   </u> |
|              | 19         | _  | Н                | _               | _        |              |          | -  |            |                |          | 69       |  | _            |                | _        |                | -        |                 |            | _        | -            | 119        |              | $\vdash$        | $\dashv$      | $\dashv$ | _        | -        | $\dashv$ | _        | $\vdash$                                     |
| ļ            | 20         | _  | $\sqcup$         | _               |          |              |          | <u> </u>   |            |                |          | 70       |  |              |                |          |                | _        | _               |            | _        |              | 120        |              | $\vdash$        |               |          | _        |          | $\dashv$ | _        | $\vdash$                                     |
|              | 21         | <u> </u>                                     |                  | _               |          |              | _        |  | _          |                | ļ        | 71       |  |              |                | _        |                | -        |                 | $\dashv$   | _        | -            | 121        | Ш            | _               | _             | _        | _        |          | $\dashv$ |          | -  |
|              | 22         | L  | $\sqcup$         | _               |          |              |          |  | <u> </u>   | Щ              |          | 72       | _  | ļ            |                | _        |                |          |                 |            |          |              | 122        |              | -               |               |          | _        |          | $\dashv$ |          | $\vdash$                                     |
| <u> </u>     | 23         | _  |                  | _               | _        |              |          | _  | <u> </u>   | Щ              |          | 73       |  |              |                | _        |                | -        | -               |            | _        | -            | 123        |              | -               |               |          | _        | _        | $\dashv$ |          |  |
|              | 24         | <u> </u>                                     | $\sqcup$         |                 |          |              | -        | <u> </u>   | <u> </u>   | Н              |          | 74       |  |              | $\vdash$       | _        |                | -        |                 | $\vdash$   | _        |              | 124        |              | -               | -             | -        | _        |          | $\dashv$ | $\dashv$ | $\vdash$                                     |
|              | 25         | <u> </u>                                     |                  |                 |          |              |          | L  | L          | Н              |          | 75       | <u> </u>   | <u> </u>     | H              | _        |                | _        |                 |            | -        | -            | 125        |              | $\dashv$        |               |          | _        |          | $\dashv$ |          | $\vdash$                                     |
|              | 26         | <u>                                     </u> |                  | -               | •        | _            |          | L  |            | Н              |          | 76       | <u> </u>   | -            |                |          |                |          |                 |            | _        |              | 126        | _            | $\vdash$        | _             | -        | -        |          | $\dashv$ | $\dashv$ | <del> </del>                                 |
|              | 27         | <u> </u>                                     | $\vdash$         |                 | $\dashv$ | $oxed{\bot}$ | Ш        |  | _          |                |          | 77       |  |              | _              | _        | _              | _        | $\dashv$        | $\dashv$   | -        |              | 127        |              | $\vdash$        |               | _        | _        |          | $\dashv$ | _        | ┝  |
| <u> </u>     | 28         | ⊢  | $\vdash$         |                 |          |              | -        |  |            | Н              |          | 78       |  |              |                | -        |                |          | $\dashv$        | -          |          | -            | 128<br>129 |              | $\vdash$        | -             | _        | _        | -        |          | $\dashv$ | -  |
| <u> </u>     | 29         | <u> </u>                                     | $\vdash$         | _               |          |              | Ш        |  | <u> </u>   | Н              |          | 79       |  | _            |                | -        | _              |          |                 | $\dashv$   | $\dashv$ |              | 130        | _            | $\vdash$        | -             | _        |          | $\dashv$ | $\dashv$ |          | ⊢  |
|              | 30         | _  |                  |                 |          | $\vdash$     | Ш        | L  | <u> </u>   | $\vdash$       |          | 80       |  |              |                |          |                | _        | $\dashv$        |            |          |              |            | _            | $\vdash \vdash$ | _             | _        |          | _        | -        |          | ⊢  |
| <u> </u>     | 31         | ⊢  | $\vdash$         | -               | _        |              | _        | ļ  |            | Н              | -        | 81       |  |              |                | _        | -              |          | $\dashv$        | -          |          |              | 131<br>132 | _            | $\dashv$        | -             |          | _        | _        | $\dashv$ | $\dashv$ | ├  |
| <u> </u>     | 32         | <u> </u>                                     | $\vdash$         | -               |          |              |          | _  | _          |                |          | 82       | -  |              |                | $\dashv$ |                | -        | _               |            | -        | -            |            |              | $\vdash$        | _             | _        | _        | -        | $\dashv$ | -        | $\vdash$                                     |
| <u> </u>     | 33         | -  | <b>├</b> }       |                 |          | H            | Н        | <u> </u>   |            | $\vdash$       |          | 83       | <del> </del>                                     | <u> </u>     | $\vdash$       | $\dashv$ | -              | $\vdash$ | $\dashv$        | $\dashv$   | $\dashv$ | -            | 133<br>134 | H            | $\vdash$        |               | $\vdash$ | $\vdash$ |          | $\dashv$ |          | $\vdash$                                     |
| <u> </u>     | 34         | <del> </del> —                               | $\vdash \vdash$  | -               | _        | $\vdash$     | $\vdash$ | <del>                                     </del> | -          | $\vdash$       | -        | 84<br>85 | $\vdash$   | $\vdash$     | Н              | $\dashv$ |                | $\dashv$ | $\vdash$        | $\vdash$   | $\dashv$ | -            | 134        |              | $\vdash$        | $\dashv$      |          | $\vdash$ |          | $\dashv$ | $\dashv$ | $\vdash$                                     |
|              | 35         | $\vdash$                                     | $\vdash \vdash$  | }               |          | $\vdash$     |          | H  | H          | H              | -        | 86       | _  |              | Н              | _        |                |          | $\dashv$        | $\dashv$   | $\dashv$ | $\vdash$     | 136        | $\vdash$     | $\vdash$        |               | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$                                     |
| <del> </del> | 36<br>37   | -  | $\vdash \vdash$  | -               | -        | H            | Н        | $\vdash$   |            | $\vdash\vdash$ | -        | 87       | $\vdash$   | -            | Н              | $\dashv$ |                | $\dashv$ | $\dashv$        | $\vdash$   | $\dashv$ | -            | 137        | H            | $\vdash$        | -             | -        | -        | $\dashv$ | -+       |          | <del></del>                                  |
| <u> </u>     | 38         | ├  | ╁┼               |                 | -        | $\vdash$     |          |  | $\vdash$   | Н              | -        | 88       | $\vdash$   |              | $\vdash$       | $\dashv$ |                | $\vdash$ |                 | $\dashv$   | $\dashv$ | <u> </u>     | 138        | <del> </del> | $\vdash$        |               | $\vdash$ | $\vdash$ | -        | $\dashv$ | _        | $\vdash$                                     |
| <b>_</b>     | 39         |  | $\vdash \vdash$  |                 |          | H            | H        | H  | H          | $\mathbb{H}$   | -        | 89       | $\vdash$   | _            | Н              | -        | _              | $\vdash$ | $\dashv$        | $\dashv$   | -        | <u> </u>     | 139        | $\vdash$     | $\vdash$        | -             | Н        | Н        | $\vdash$ | $\dashv$ | $\dashv$ | $\vdash$                                     |
| <b></b>      | 40         | $\vdash$                                     | $\vdash$         | 1               |          | $\vdash$     | -        | $\vdash$   | $\vdash$   | H              | -        | 90       | $\vdash$   |              | $\vdash$       | $\dashv$ |                | $\dashv$ | $\dashv$        | $\dashv$   |          | <b>—</b>     | 140        |              | $\vdash$        |               | $\vdash$ | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\vdash$                                     |
|              | 41         | $\vdash$                                     | H                | -               |          | <u> </u>     |          | -  |            | H              | <u> </u> | 91       | $\vdash$   | <del> </del> | $\vdash$       | -        |                | 1        | $\dashv$        |            | $\dashv$ | -            | 141        | $\vdash$     | $\vdash$        | -             |          | $\vdash$ | -        | $\dashv$ | $\dashv$ | $\vdash$                                     |
|              | 41         | $\vdash$                                     | H                | $\dashv$        | -        | <u> </u>     | $\vdash$ | $\vdash$   | $\vdash$   | H              | -        | 92       | H  |              | $\vdash$       | $\dashv$ |                | $\dashv$ | $\dashv$        | $\dashv$   | $\dashv$ |              | 142        | H            | $\vdash$        | -             | $\dashv$ | $\vdash$ |          | $\dashv$ | $\dashv$ | $\vdash$                                     |
| <del> </del> | 43         | $\vdash$                                     | $\vdash$         | $\dashv$        | $\dashv$ | $\vdash$     | Н        | $\vdash$   | $\vdash$   | $\vdash$       | <u> </u> | 93       | $\vdash$   | ├─           | $\vdash$       | -        |                | $\dashv$ | $\vdash$        | $\vdash$   | $\dashv$ | -            | 143        | H            | $\dashv$        | $\dashv$      | $\dashv$ | $\dashv$ |          | $\dashv$ | $\dashv$ | <del> </del>                                 |
| <del> </del> | 43         | $\vdash$                                     | Н                | $\dashv$        |          | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$       | -        | 93       | $\vdash$   | -            | $\vdash$       | $\dashv$ |                | $\dashv$ | $\dashv$        |            | $\dashv$ | -            | 144        | H            | $\vdash$        | -             | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$ | ┢  |
| <del></del>  | 45         | -  | $\vdash$         | $\dashv$        | $\dashv$ | $\vdash$     | $\vdash$ | -  | $\vdash$   | $\vdash$       | -        | 95       | <del>                                     </del> | $\vdash$     | Н              |          | -              | $\dashv$ | $\vdash$        | $\vdash$   | -        | -            | 145        | Н            | $\vdash$        | $\dashv$      | $\dashv$ | $\vdash$ | -        |          |          | $\vdash$                                     |
| ⊢            | 46         | ⊢−   |                  | $\dashv$        | $\dashv$ | $\vdash$     | Н        | $\vdash$   | $\vdash$   | $\vdash\vdash$ | -        | 96       |  | ┝            | $\vdash$       |          |                | $\dashv$ | $\vdash \dashv$ |            | $\dashv$ | -            | 146        | H            | $\vdash$        |               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | <del> </del>                                 |
|              | 47         | ├  | -                | $\dashv$        | $\dashv$ | $\vdash$     | Н        |  |            | $\vdash$       | -        | 97       | -  | ┝            | $\vdash$       | $\dashv$ |                | $\dashv$ | $\vdash$        | $\vdash$   | ┨ .      | ·            | 147        | H            | $\vdash$        | -             | $\dashv$ | -        | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$                                     |
|              | 48         | $\vdash$                                     | $\vdash$         | $\dashv$        | $\dashv$ | -            | $\vdash$ | -  | $\vdash$   | $\vdash$       | -        | 98       | $\vdash$   | ⊢            | $\vdash$       |          |                | $\dashv$ | $\vdash$        | $\vdash$   | $\dashv$ | <b>-</b> -   | 148        | $\vdash$     | $\dashv$        | -             | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$                                     |
| <del></del>  | 49         | ┢╌   | ╁                | -               | -        |              | H        | -  | $\vdash$   | $\dashv$       | -        | 99       | H  | -            | Н              | $\dashv$ | -              |          | $\vdash$        | $\dashv$   | $\dashv$ | <del> </del> | 149        | $\vdash$     | $\vdash$        |               | -        |          | -        | $\dashv$ | -        | <u> </u>                                     |
| <del> </del> | 50         | $\vdash$                                     | $\vdash$         | $\dashv$        | $\dashv$ | $\vdash$     | Н        | $\vdash$   | -          | $\vdash$       | <u> </u> | 100      |  | ┢            | $\vdash$       | 一        |                | $\dashv$ | -               |            | $\dashv$ | <b>—</b>     | 150        | Н            | $\vdash \dashv$ |               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | Н  |
|              | J OU       | L  | ш                |                 |          |              |          |  | ı          |                | 1        | טטון     |  |              |                | 1        |                |          |                 |            |          | 1            | I IOU      |              |                 |               |          |          |          |          |          |  |